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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/898,505	07/03/2001	Konrad Grob	GIS-3.2.026/4049	4008	
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GIBBONS, DEL DEO, DOLAN, GRIFFINGER & VECCHIONE			EXAMINER		
	I RIVERFRONT PLAZA NEWARK, NJ 07102-5497			JACKSON, ANDRE K	
			ART UNIT	PAPER NUMBER	
			2856		
	·		DATE MAILED: 06/17/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Office Action Summary Examiner Andre' K. Jackson 2856 The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication to reply with the set or extended period for reply will, by statute, cause the application to became ABANDONED (35 U.S.C. § 133) Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 11 April 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the menic closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Is claim(s) 1-20 is/are rejected. 7) Is claim(s) 1-20 is/are rejected. 7) Claim(s) 1-20 is/are rejected to. 8) Claim(s) 1-20 is/are objected to.	
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7) Claim(s) is/are objected to.	
	•
8) Claim(s) are subject to restriction and/or election requirement.	
Anadia Alan Banasa	
Application Papers	•
9) The specification is objected to by the Examiner.	
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.	
If approved, corrected drawings are required in reply to this Office action.	
12) The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. §§ 119 and 120	
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	
1.☐ Certified copies of the priority documents have been received.	
2. Certified copies of the priority documents have been received in Application No	
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application of the control of the cont	ation).
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	
Attachment(s)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) Other:	_·

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DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "6" has been used to designate both the chamber and liner on pages 5 and 9 respectively. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

 Claim 20 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 20, Applicant is claiming that the upper part of the chamber is heated to a lower temperature. However, in the specification on page 5 it is written that the upper portion is cooled at least not heated. Clarification is needed.

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-9,11,13,14,15,17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grob (Injection techniques in capillary GC) in view of Grob (WO 01/33209).

Regarding 1, Grob discloses "Injection techniques in capillary GC" teaches an elongated and constantly heated vaporization chamber (Pages 1009-1010); a syringe equipped with a needle configured to render vaporization of the sample liquid within the needle negligible (Pages 1009-1010; Figure 1a-1d), and further containing a means for stopping and vaporizing the sample liquid above the column entrance (Pages 1012-1013; Figure 4). A distance between the exit of the needle and then means for stopping and vaporizing the sample liquid above the column entrance is not disclosed by Grob. However, since Grob et al. teaches in "Vaprozation injector" that the column has no limits to its length.

Therefore, it would be well within the purview of the skilled artisan to modify Grob (Injection techniques in capillary GC) to have the stop means at particular lengths according to the length of the column as suggested by

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Grob(WO 01/33209) since the column can have any suitable length according to what the user needs.

Regarding claim 2, a distance between the exit of the needle and then means for stopping and vaporizing the sample liquid above the column entrance is not disclosed by Grob (Injection techniques in capillary GC). However, Grob (WO 01/33209) teaches that the column has no limits to its length. Therefore, it would be well within the purview of the skilled artisan to modify Grob (Injection techniques in capillary GC) to have the stop means at particular lengths according to the length of the column as suggested by Grob (WO 01/33209) since the column can have any suitable length according to what the user needs.

Regarding claim 3, Grob does not disclose a distance where the needle extends into the chamber of less than 30 mm. However, Grob (WO 01/33209) discloses where the needle extends into the chamber below 30 mm (Page 4). Therefore, tit would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Grob to include a distance where the needle extends into the chamber less than 30 mm as taught by Grob (WO 01/33209) since they are from the same field of endeavor.

Regarding claim 4, Grob (Injection techniques in capillary GC) does not disclose the diameter of the internal chamber of the needle. However,

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it is well within the purview of the skilled artisan to experiment with different diameters of needles to achieve various injection velocities.

Regarding claim 5, Grob (Injection techniques in capillary GC) disclose where the chamber is cooled (Page1009).

Regarding claim 6, a thermal insulating material for the needle is not disclosed by Grob, however, it is well within the purview of the skilled artisan to include this feature to keep the temperature of the need at a specific temperature.

Regarding claim 7, a thermal insulating material for the needle is not disclosed by Grob, however, it is well within the purview of the skilled artisan to include this feature to keep the temperature of the need at a specific temperature.

Regarding claims 8 and 9, Grob (Injection techniques in capillary GC) does not explicitly state the length of the vaporization chamber. However, Grob (WO 01/33209) teaches that the column has no limits to its length. Therefore, it would be well within the purview of the skilled artisan to modify Grob (Injection techniques in capillary GC) to have different lengths of the column as suggested by Grob (WO 01/33209) since the column can have any suitable length according to what the user needs

Regarding claim 10, Grob (Injection techniques in capillary GC)
does not disclose a coiled chamber. It is considered a design choice and

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well within the purview of the skilled artisan to alter the shape of the chamber. Having a coiled chamber would provide a longer length.

Regarding claim 12, Grob does not disclose the composition of the chamber, but it is well within the purview of the skilled artisan to use any material desired for the chamber therefore the artisan could use silcosteel for the chamber for its inert qualities.

Regarding cliam 13, Grob (Injection techniques in capillary GC) discloses where a septum in mounted on the injector head (Column 1, line 21).

Regarding claim 14, Grob (Injection techniques in capillary GC). does not disclose where there is a restriction in the lower part containing the stop. However, Grob (WO 01/33209) disclose where there is a restriction in the lower part containing the stop (Page 5). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Grob (Injection techniques in capillary GC) to include where there is a restriction in the lower part containing the stop as taught by Grob (WO 01/33209) since this would cause a higher flow pressure.

Regarding claim 17, Grob (Injection techniques in capillary GC) teaches an elongated and constantly heated vaporization chamber (Pages 1009-1010); a syringe equipped with a needle configured to render vaporization of the sample liquid within the needle negligible (Pages 1009-1010; Figure 1a-1d), and further containing a means for stopping and

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vaporizing the sample liquid above the column entrance (Pages 1012-1013; Figure 4). A distance between the exit of the needle and then means for stopping and vaporizing the sample liquid above the column entrance is not disclosed by Grob. However, Grob teaches that the column has no limits to its length. Therefore, it would be well within the purview of the skilled artisan to modify Grob (Injection techniques in capillary GC) to have the stop means at particular lengths according to the length of the column as suggested by Grob (WO 01/33209) since the column can have any suitable length according to what the user needs.

Regarding claim 18, Grob (Injection techniques in capillary GC) does not disclose a distance where the needle extends into the chamber of less than 30 mm. However, Grob (WO 01/33209) discloses where the needle extends into the chamber below 30 mm (Page 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Grob to include a distance where the needle extends into the chamber less than 30 mm as taught by Grob (WO 01/33209) since they are from the same field of endeavor.

Reagarding claim 19, Grob (Injection techniques in capillary GC) discloses where the heating means for the vaporization chamber are provided to achieve a maximum heating effect to vaporize all of the sample towards the base of the chamber and lower temperature in the upper part of the chamber (Page 2 and 3).

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6. Claims 11 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grob (Injection techniques in capillary GC) in view of Sasano et al.

Regarding claim 11, Grob et al. does not disclose where the chamber is made from metal. However, Sasano et al. discloses where the liner is made from metal (Column 2, line 68). Therefore, to make the chamber is made from metal as taught by Sasano et al. since this would make it easier to heat or cool the chamber.

Regarding claim 15, Grob does not disclose where the restriction is connected to the upper part of the chamber by a funneled wall. However, Sasano et al. discloses where the restriction is connected to the upper part of the chamber by a funneled wall (Figure 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Grob to include where the restriction is connected to the upper part of the chamber by a funneled wall as taught by Sasano et al. since the funneled wall makes for an easier flow.

Response to Arguments

7. Applicant's arguments with respect to claims 1-18 have been considered but are most in view of the new ground(s) of rejection.

The Examiner is confused. Applicant agrees on page 14 of the amendment that the teachings of Grob et al. and Sasano et al. *lead* to the

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subject matter of the amended claims, but goes on to argue how they differ from the Applicants invention.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre' K. Jackson whose telephone number is (703) 305-1522. The examiner can normally be reached on Mon.-Thurs. 7AM-4PM.

HEZRON WILLIAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (703) 305-4705. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

A.J. June 14, 2003

HEZRON WILLIAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800